SOUTHAMPTON

PORT SANITARY AUTHORITY.

ANNUAL REPORT

ON THE

PORT OF SOUTHAMPTON,

For the Year 1906,

BY

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Medical Officer of Health for the County Borough and Port of Southampton.

SOUTHAMPTON

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SOUTHAMPTON

PORT SANITARY AUTHORITY.

ANNUAL REPORT

For the Year ending 31st December, 1906.

TO THE MAYOR, ALDERMEN, AND COUNCILLORS

OF THE

COUNTY BOROUGH OF SOUTHAMPTON.

GENTLEMEN,

In accordance with the Regulations of the Local Goverment Board, I have the honour to present to you the Annual Report on the Port of Southampton, giving information as to the sickness and mortality on ship-board in the district, and an account of the action taken to prevent the spread of infectious disease and to remedy conditions dangerous to health during the year.

Many of the Ports which are in close communication with Southampton have been declared infected or suspected to be infected with Plague, Cholera, Yellow Fever, or Small-pox, necessitating the boarding and examination of several of the vessels coming here. It was, however, practicable to withdraw South Africa from the infected list, no case of Plague having occurred there for some months.

The number of persons, passengers and crew, was larger than in the previous year, amounting to 284,688 persons, compared with 270,808 in 1905. There was also an increase of 260,242 in the net tonnage of vessels entering the Port.

I should again like to tender my thanks to the Naval and Military Authorities and the various Shipping Companies for valuable aid extended to me during the year.

I am, Gentlemen,

Your obedient Servant,

R. E. LAUDER,

Port Medical Officer.

STATISTICS.

By the courtesy of the Board of Trade I am enabled to append particulars contained in Table (A), showing the number of passengers who left for places out of Europe, and the number of alien passengers arriving from the Continent of Europe.

The record shows a decrease in the number of persons who left for, but a large increase in the number of aliens arriving from the Continent.

The number of aliens who arrived from the Continent amounted to 24,507, being an increase of 15,836 compared with the number that arrived at this Port in the previous year, when the number was 8,671. In 1904, 3,447 arrived.

The medical examination of emigrants embarking is carried out by the Board of Trade's Medical Officer.

The Information in Table (B) is supplied by the Customs Authorities, and shows the number and tonnage of vessels arriving in the Port, together with the number of crews and passengers.

The total number ot passenger and crews arriving from all countries amounted to 284,688, being an increase of 13,880 persons arriving in the Port last year compared with 1905.

This increase represents an addition of 5,510 passengers and 8,370 crew.

The number of vessels arriving here increased by 332, and there was an increase of 260,242 in the net tonnage of vessels entering the Port.

Several large vessels arrived in the river to disembark passengers for Southampton. Records are obtainable of persons landing only, and not of passengers or crews in transit to other Ports.

TABLE A.

Table showing number of passengers who left the Port for places out of Europe; and the number of alien passengers arriving here from the Continent for 10 years, 1897—1906.

PASSENGERS.	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906
Number of Passengers who left for places out of Europe and not within the Mediterranean Sea...	60,059	44,034	49,662	64,998	58,829	87,030	88,695	72,296	68,031	66,232
Number of Alien Passengers who arrived from the Continent as Deck Passengers, or who, after landing, proceeded by train as third class passengers	940	891	1,174	1,538	1,981	4,765	5,784	3,447	8,671	24,507

TABLE B.

RETURN OF SHIP'S TONNAGE, PASSENGER ARRIVALS, ETC., FOR TEN YEARS, 1897—1906.

Year.	Number of Arrivals from Foreign Ports	Number of Arrivals from Home Ports (Coasters).	Number of Passengers arriving at the Port from Ports other than Jersey.	Number of Passengers arriving from Jersey.	Number of Crews arriving.	Number of Ships 2,000 Tons and upwards.	Number of Ships under 2,000 Tons.	Net Tonnage of Vessels entering the Port
			"A"					
1897	*2,587	10,134	81,594	31,784	90,545	472	2,115	3,849,553
1898	*2,768	10,043	82,140	31,474	100,719	539	2,229	4,155,071
1899	*2,791	9,538	96 637	27,915	103,748	683	2,108	4,257,035
1900	*2,812	10,025	122,449	27,776	109,382	687	2,125	4,822,384
1901	*2,873	10,233	146,181	28,693	174 351	703	†12,403	4,871,876
1902	*3,012	10,955	253,225	30,104	189,598	714	†13,253	5,355,291
1903	*2,557	10,688	121,533	29,770	179,761	576	†12,669	4,373,993
1904	*2,560	10,805	108,474	30,376	124,849	649	†12,716	4,630,138
1905	*2,395	10,840	114,968	28,659	127,181	519	†12,716	4,227,062
1906	*2,555	11,013	119,988	29,149	135,551	431	†13,137	4,487,304

*(1897)—353 of these Vessels called here without reporting ; no record of Crews or Passengers remaining on board ; no average possible.
*(1898)—377 ditto ditto ditto ditto ditto
*(1899)—519 ditto ditto ditto ditto ditto
*(1900)—489 ditto ditto ditto ditto ditto
*(1901)—546 ditto ditto ditto ditto ditto
*(1902)—636 ditto ditto ditto ditto ditto
*(1903)—307 ditto ditto ditto ditto ditto
*(1904)—196 ditto ditto ditto ditto ditto
*(1905)—120 ditto ditto ditto ditto ditto
*(1906)—169 ditto ditto ditto ditto ditto

All Passengers other than those from Jersey are included in Column marked "A," 47,063 of whom arrived from the Continent of Europe in 1905.

† Including Coasters.

TABLE
ZYMOTIC

The following Table gives particulars of Vessels reported as measures adopted in each case by the direction of the Port Medical

Date.	Name of Vessel.	Where From	Nature of Sickness.
1906.			
1—January 2	Assaye, H. M.T.	Bombay	Convalescent cases of Enteric Fever. One death from Beri-Beri. Nine cases of Tubercle of Lungs.
2—January 7	S.S. New York	New York	One case of Enteric Fever
3—January 14	S.S. St. Louis	New York	One case of Measles.
4—January 15	S.S. HansWoermann	Swakopmunde	Two cases of Malaria
5—January 19	S.S. Guelph	Delagoa Bay	One convalescent case of Enteric Fever.
6—January 30	S.S. Plassy, H.M.T.	Bombay	Five convalescent cases of Enteric Fever.
7—February 2	S.S. Tagus	New York	One case of Varicella.
8—February 8	S.S. Dilwara, H.M.T.	Cape Town	One case of Scarlet Fever.
9—February 19	S.S. Umblali	Natal	Two cases of Malaria
10—February 19	S.S. Ionian, H.M.T.	Bombay	Eleven cases of Chicken-pox.
11—February 19	S.S. St. Louis	New York	One death from Phthisis
12—February 22	S.S. Ethiopia	Calabar	Six cases of Malaria.
13—February 24	S.S. Walmer Cast e	Durban	One case of Enteric Fever. One case of Malaria.
14—February 25	S.S. Gascon	Mossel Bay	One case of Enteric Fever. Two cases of Malaria.
15—March 1	S.S. Lucie Woermann	Duala	Four cases of Malaria.
16—March 5	S.S. Ancobra	Calabar	Six cases of Malaria.

C.

DISEASES.

having, or having had, Zymotic Diseases on Board, with the Officer.

REMARKS.

1—Disinfection carried out by Port Sanitary Authority.

2—Removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

3—Case landed at Cherbourg. Bedding destroyed. Disinfection carried out by Port Sanitary Authority.

4.—No action taken.

5—Disinfection carried out.

6—Disinfection carried out.

7—The case being suspicious, was removed to the Hospital Ship for observation. Disinfection carried out by Port Sanitary Authority.

8—Case removed to Isolation Hospital.

9—No action taken.

10—Cases removed to Isolation Hospital. All contacts removed to West Quay and bathed and disinfected. Disinfection carried out by Port Sanitary Authority.

11—Disinfection carried out by Port Sanitary Authority.

12—No action taken.

13—Enteric case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

14—Enteric case removed to Isolation Hospital. Disinfection carried out.

15—No action taken.

16—No action taken.

Date.		Name of Vessel.	Where from.	Nature of Sickness.
17—March	6	S.S. La Plata	New York *via* West Indies	Three cases of Malaria
18—March	7	S.S.Assaye, H.M.T.	Bombay	One case of Beri-Beri, sixteen cases of Tubercle of Lung.
19—March	10	S.S. Briton	Natal	One case of Intermittent Temperature
20—March	17	S.S. Kildonan Castle	Natal	One case of Enteric Fever.
21—March	24	S.S. Phillipeville	Matadi	Seven cases of Malaria
22—March	28	S.S. Dover Castle	Delagoa Bay	One case of Measles
23—March	30	S.S. Sicilia, H.M.T.	Karachi	One case of Chicken Pox, landed at Suez.
24—April	3	S.S. Zeiten	Yokohama	Two cases of Measles, landed at Genoa.
25—April	5	S.S. Soudan, H.M.T.	Bombay	One case of German Measles, two cases Enteric Fever.
26—April	5	S.S. Danube	Buenos Ayres	One case of Small-pox, landed at Vigo.
27—April	5	S.S. Plassy, H.M.T.	Bombay	Crew: Two cases of Enteric Fever. Troops: Four cases of Enteric Fever, one case of Measles, eleven cases of Tubercle.
28—April	8	S.S. Gaul	Delagoa Bay	One case of Enteric Fever
29—Aprli	14	S.S. Anversville	Matadi	Two deaths from Malaria, one death from Tropical Dysentery.
30—April	17	S.S. Hans Woermann	Swakopmunde	Four cases of Malaria.
31—April	23	S.S. Ionian, H.M.T.	Bombay	Troops: One case of Plague reported to have landed at Aden, one case of Enteric Fever, six cases of Whooping Cough.
32—April	28	S.S. Walmer Castle	Natal	One death from Phthisis

REMARKS.

17—No action taken.

18—Disinfection carried out by Port Sanitary Authority.

19—Case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

20—Case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

21—No action taken.

22.—Case removed with mother and another child to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

23.—Disinfection carried out.

24.—Disinfection carried out.

25.—Case of German Measles removed to Isolation Hospital. Cases of Enteric removed to Netley Hospital. Disinfection carried out by Port Sanitary Authority.

26.—Four contacts, their effects, the ship's doctor's effects, and the bedding in the two hospitals on port side removed to West Quay for disinfection, and disinfection carried out on board by Port Sanitary Authority.

27.—Two cases of enteric (crew). and one case of measles (troops), removed to Isolation Hospital. The other cases removed to Netley Hospital. Disinfection carried out by Port Sanitary Authority.

28.—Case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

29.—No action taken.

30.—No action taken.

31—Enteric case removed to Netley Hospital. The families suffering from Whooping Cough removed to Isolation Hospital. The whole of the ship's linen, &c., and the whole of the Government bedding removed to West Quay for disinfection. The ship was taken down the river and disinfected throughout (see text of Report, page 22).

32—Disinfection carried out by Port Sanitary Authority.

Date.		Name of Vessel.	Where from.	Nature of Sickness.
33—April	28	S.S. Clyde	Buenos Ayres	One case of Scarlet Fever, landed at Vigo
34—April	29	S.S. Atrato	New York *via* West Indies	One case of Dirrahœa and Malaria.
35—April	29	S.S. Lucie Woermann	Duala	Ten cases of Malaria.
36—May	1	S.S. Assaye, H.M.T.	Cape Town	Troops: One case of dysentery, fifteen cases of Tubercle of Lungs, one case of Scarlet Fever (convalescent)
37—May	5	S.S. Kinfauns Castle	Natal	One case of Pulmonary Tuberculosis.
38—May	6	S.S. New York	New York	One case of Measles, landed at Cherbourg, one case of Chicken-pox, one case of Enteric Fever.
39—May	6	S.S. Dufferin, R.I.M.S.	Bombay	Crew: One case of Enteric Fever, landed at Port Said. Troops: 32 cases of Measles among the children. Two deaths from Infantile Diarrhœa
40—May	10	S.S. Durham Castle	Delogoa Bay	One case of German Measles
41—May	12	S.S. Briton	Natal	One case of Phthisis
42—May	13	S.S. La Plata	New York *via* West Indies	Eight cases of Malaria
43—May	14	S.S. Professor Woermann	Swakopmunde	Three cases of Malaria
44—May	18	S S. Braemar Castle	Delagoa Bay	One convalescent case of Whooping Cough
45—May	22	S S. Dufferin, R.I.M.S.	Bombay	One case of Measles.
46—May	26	S.S. Saxon	Natal	One case of Enteric. Five convalescent cases of Whooping Cough. One death from Malaria.
47—May	27	S.S. Magdalena	Buenos Ayres	Ten cases of Scarlet Fever.

REMARKS.

33—Disinfection carried out by Port Sanitary Authority.

34—Disinfection carried out by Port Sanitary Authority.

35—No action taken.

36—Disinfection carried out by Port Sanitary Authority.

37—Disinfection carried out by Port Sanitary Authority.

38—The cases of Chicken-pox and Enteric removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

39—Nine cases of Measles were convalescent on arrival, and one case died at sea. The remaining 22 cases removed to Isolation Hospital. 120 contacts removed to Isolation Hospital and West Quay Hospital for disinfection. The whole of the effects in the women's and children's quarters and the whole of the bedding used by the cases and contacts removed to West Quay for disinfection. Disinfection on board carried out by Port Sanitary Authority.

40.—Case removed to Isolation Hospital with Mother and another child. Disinfection carried out by Port Sanitary Authority.

41.—Disinfection carried out by Port Sanitary Authority.

42.—No action taken.

43.—No action taken.

44.—Case removed to Isolation Hospital. Disinfection carried out.

45.—Disinfection carried out by Port Sanitary Authority.

46.—Enteric case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

47.—Cases contacts and effects removed to Isolation Hospital. The whole of the bedding, &c., in 1st, 2nd, and 3rd Class quarters, Ship's Hospital, and 4th and 5th Officers' Cabin removed for disinfection, and the quarters sprayed with Formalin and Glycerine.

Date.		Name of Vessel.	Where from.	Nature of Sickness.
48—May	28	S.S. Phillipeville	Matadi	Six cases of Malaria (two died).
49—May	28	S.S. Prince Eitel Friedrich	Yokohama	One case of Small-pox landed at Shanghai
50—June	2	S.S. Avondale Castle	Cape Town	Two cases of Chicken-pox, one convalescent.
51—June	6	S.S. Dunluce Castle	Cape Town	One convalescent case of Whooping Cough, six cases of Malaria
52—June	13	S.S. Gascon	East London	One case of Enteric Fever.
53—June	16	S.S. Armadale Castle	Natal	One convalescent case of German Measles.
54—June	17	S.S. Leopoldville	Matadi	Four cases of Malaria.
55—June	24	S.S. S. Paul	New York	One case of Measles
56—June	29	S.S. Lucie Woermann	Duala	Three cases of Malaria.
57—June	29	S.S. Dover Cast	Delagoa Bay	One case of Enteric Fever, one case of Whooping Cough.
58—June	30	S.S. Ancobra	Calabar	Three cases of Malaria (recovered).
59—July	1	S.S. Tagus	New York *via* Wes Indies	Five cases of Malaria
60—July	4	S,S. Goorkha	East London	One case of Small-pox.
61—July	7	S.S. Kinfauns Castle	Durban	Two cases of Measles.
62—July	8	S.S. Bruxellsvil e	Matadi	Nine cases and one death from Malaria.
63—July	14	S.S. Briton	Natal	One case of Phthisis.
64—Juiy	16	S.S. Atrato	New York *via* West Indies	One case of Enteric Fever.
65—July	29	S.S. Phillipville	Matadi	Two cases of Malaria.
66—July	30	S.S. La Plata	New York *via* West Indies	Sixteen cases of Malaria

REMARKS.

48.—No action taken.

49.—Disinfection carried out.

50.—Case removed to Isolation Hospital. Disinfection carried out.

51.—Disinfection carried out by Port Sanitary Authority.

52.—Case removed to Isolation Hospital. Disinfection carried out.

53.—Disinfection carried out by Port Sanitary Authority.

54.—No action taken.

55.—Landed at Cherbourg. Disinfection carried out by Port Sanitary Authority.

56.—No action taken.

57—Case of Whooping Cough, convalescent. Enteric case removed to Isolation Hos pital Disinfection carried out by Port Sanitary Authority.

58.—No action taken.

59.—No action taken.

60.—Case, mother, and attendant removed to West Quay Hospital for observation. Vessel proceeded to London immediately; Cabin and Hospital sealed up, and Port of London Sanitary Authority advised by telegram for disinfection to be carried out at that Port.

61.—Cases removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

62—No action taken.

63—Disinfection carried out.

64—Case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

65—No action taken.

66—No action taken.

Date.	Name of Vessel.	Where from.	Nature of Sickness.
67—August 4	S.S. Carisbrook Castle	Natal	Mild cases of German Measles on outward voyage.
68—August 7	S.S. Durham Castle	Delagoa Bay	One convalescent case of Chicken-pox, one death from Phthisis.
69—August 11	S.S. St. Louis	New York	One case of Enteric Fever.
70—August 13	S.S. Trent	New York *via* West Indies	One case of Malaria and one case of Phthisis.
71—August 16	S.S. Hans Woermann	Swakopmunde	One case of Enteric, three cases of Malaria.
72—August 18	S.S. Armadale Castle	Natal	One case of Enteric, one convalescent case of Erysipelas.
73—August 26	S.S. Orinoco	New York *via* West Indies	One death at sea from Enteric Fever.
74—September 6	S.S. Dover Castle	Delagoa Bay	One convalescent case of German Measles, Eight cases of Malaria
75—September 11	S.S. Galician	East London	One convalescent case of Measles
76—September 15	S.S. Aragon	Buenos Ayres	One case of Measles landed at Vigo
77—September 29	S.S. Danube	Buenos Ayres	One case of Measles
78—October 1	S.S. Atrato	New York *via* West Indies	One case of Elevated Temperature. One case of Tuberculosis
79—October 13	S.S. Philadelphia	New York	One case of Scarlet Fever
80—October 15	S.S. La Plata	New York, *via* West Indies	Ten cases of Malaria
81—October 26	S.S. Assaye, H.M.T.	Bombay	One case of Enteric Fever
82—November 2	S.S. Avondale Castle	Mossel Bay	Troops: One convalescent case of Enteric Fever
83—November 4	S.S. Sansu	Duala	Three cases of Malaria
84—November 8	S.S. Dongola, H.M.T.	Bombay	Troops: One death at sea from Enteric Fever
85—November 14	S.S. Durham Castle	Delagoa Bay	One case of Enteric Fever died at sea

REMARKS.

67—Disinfection carried out by Port Sanitary Authority.

68—Disinfection carried out by Port Sanitary Authority.

69—Case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

70—Disinfection carried out by Port Sanitary Authority.

71—Case of Enteric landed at another Port. Disinfection carried out

72—Case of Enteric removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

73—Disinfection carried out by Port Sanitary Authority.

74—Disinfection carried out by Port Sanitary Authority.

75—Disinfection carried out.

76—Disinfection carried out by Port Sanitary Authority.

77—Case and mother removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

78—Disinfection carried out by Port Sanitary Authority.

79—Case and attendant removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

80—No action taken.

81—Case removed to Netley Hospital. Disinfection carried out by Port Sanitary Authority.

82—Disinfection carried out.

83—No action taken.

84—Disinfection carried out.

85—Disintection carried out by Port Sanitary Authority.

Date.	Name of Vessel.	Where from.	Nature of Sickness.
86—November 15	S.S. Aragon	Buenos Ayres	Three cases of Phthisis
87—November 18	S.S. Hans Woermann	Swakopmunde	Three cases of Malaria
88.—November 19	S.S. Warri	Old Calabar	Three case of Malaria.
89.—November 22	S.S. Plassy, H.M.T.	Bombay	Troops: Four convalescent cases Enteric Fever.
90.—November 29	S.S. Lucie Woermann	Duala	Fifteen cases of Malaria
91.—November 30	S.S. Albertville	Matadi	Three cases of Malaria
92.—December 3	S.S. Galician	East London	One case of Erysipelas, convalescent; 25 cases Diarrhœa amongst troops, average duration of two days.
93.—December 7	S.S. Rewa, H.M.T.	Karachi	Four cases of Tubercle of Lungs.
94.—December 8	S.S. Danube	Buenos Ayres	Three mild cases of Measles landed at Vigo.
95.—December 10	S.S. Atrato	New York *via* West Indies	One death from Phthisis
96.—December 13	S.S. Dunluce Castle	Delagoa Bay	Two case of Whooping Cough, one landed at Teneriffe, the other convalescent.
97.—December 14	S.S. Minnehaha	London	Case of Scarlet Fever.
98.—December 22	S.S. Armadale Castle	Natal	One case of Scarlet Fever, four cases of Enteric Fever.

REMARKS.

86—Disinfection carried out by Port Sanitary Authority.

17—No action taken.

88—No action taken.

89—Disinfection carried out.

90—No action taken.

91—No action taken.

92—Disinfection carried out

93—Disinfection carried out by Port Sanitary Authority.

94—Disinfection carried out by Port Sanitary Authority.

95—Disinfection carried out by Port Sanitary Authority.

96 Disinfection carried out by Port Sanitary Authority.

97—Case removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

98—All cases removed to Isolation Hospital. Disinfection carried out by Port Sanitary Authority.

TABLE D.

INFECTIOUS DISEASE.

Table showing the number of cases reported to have occurred on vessels bound for Southampton, and the number of them actually landed at this Port.

DISEASE.	Total cases reported.	Cases actually landed and removed for isolation.	Cases occurring during voyage and dealt with before arrival here, or died at sea.				
			Landed at other Ports.	Pro-ceeded in vessel to other Ports.	Died at Sea.	Conva-lescent on arrival.	Total.
Small Pox	5	1	4	...	...	...	4
Scarlet Fever	17	14	3	...	...	...	3
Diphtheria	1	1	...	...	...	...	...
Enteric Fever	34	27	1	...	4	2	7
Erysipelas	1	1	...	...	...	...	...
Measles	88	48	19	1	1	19	40
Chicken Pox	17	11	1	...	...	5	6
Plague	1	...	1	...	...	...	1
Whooping Cough ...	14	3	3	...	...	8	11
Totals	178	106	32	1	5	34	72

Cases of sickness (other than infectious shown in Table D) reported to have occurred on vessels bound for Southampton. Minor ailments have been omitted.

Malarial Fever	214	Rheumatism	18
Elevated Temperature ...	9	Rheumatic Fever... ...	2
Diarrhœa and Dysentery ...	182	Apoplexy	5
Beri Beri	6	Heat Apoplexy	4
Phthisis	85	Meningitis	2
Venereal Diseases ...	83	Heart Disease	6
Influenza	20	Tonsilitis	12
Bronchitis	13	Gastritis	8
Pneumonia	41	Appendicitis	3
Cancer	2		

TABLE E.

THE PRINCIPAL ZYMOTIC DISEASES.

Reported to have existed on Vessels bound for Southampton for ten years, 1897 to 1906.

DISEASE.	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906
Small Pox ...	15	11	12	19	4	2	11	9	17	5
Scarlet Fever .	...	...	2	3	4	25	13	3	2	17
Enteric Fever ..	15	14	12	260	252	179	86	63	32	34
Diphtheria ..	3	1	1	5	2	2	8	...	9	1
Measles ...	32	37	41	53	61	187	47	22	60	88
Yellow Fever...	3	1	1	5	...	1	1	...	...	...
Plague	1	...	...	...	3*	...	2	1	...	1

* Two of these were convalescent cases from Cape Town.

DEATHS AT SEA.

Eighty-five deaths were reported during the year as having occurred on vessels bound for Southampton.

Respiratory Diseases and Phthisis, and Malarial Fever, were responsible for the largest number of deaths.

Heart Disease ...	... 3	Diarrhœa and Dysentery	... 3
Syncope... ...	... 3	Malarial Fever ...	... 11
Phthisis ...	... 13	Enteric Fever ...	... 4
Bronchitis ...	... 2	Beri Beri ...	.. 1
Pneumonia ...	... 11	Meningitis ...	... 1
Heat Apoplexy ...	.. 3	Chronic Nephritis ...	... 2
Apoplexy ...	... 4	Other Diseases ...	... 24

PLAGUE.

Plague occurred at the following places during the year :—China, Japan, India, Formosa, Phillipine Islands, Singapore, Bangkok, Aden, Algeria, Persia, Turkey, Southern Russia, South Africa, British East Africa, Mauritius, Alexandria, Port Said, Peru, Chili, Rio de Janerio, Bahia, Santos, Pernambuco,

Para, Sydney, Queensland, Western Australia, and several ports in Australia, Buenos Ayres, San Nicolas, Argentine, Hawaiian Islands, and New Caledonia.

Rio de Janerio, was infected with Plague throughout the year, many cases and deaths having occurred each week. Several vessels making Southampton their home call at this Port. No case of Plague, however, occurred on any vessel arriving here from South America.

All vessels arriving from the above mentioned places were boarded by the Port Sanitary Authority off Netley, and the names and addresses of all persons landing were obtained before the Vessel proceeded to dock.

All troopships coming from Plague infected Ports were also boarded off Netley, in co-operation with the Naval and Military representatives at this Port.

One case of Plague was reported to have occurred on a troopship arriving here from Bombay, the particulars of which are :—

H.M. Transport "Ionian" arrived at Southampton from Bombay on 23rd April. A case of Plague was landed at Aden on 6th April.

On arrival here the ship reported all well on board, with the exception of a case of Enteric Fever and cases of Whooping Cough. The names and addresses of all troops and crew, amounting to 1,756 persons were obtained and forwarded to the Sanitary Authorities of the districts to which such persons were proceeding or in the case of troops, to the Principal Medical Officer of the Military Depot at their destination.

The whole of the ship's linen and bedding, and the whole of the Government bedding, amounting to 19,139 articles, were removed to the Steam Disinfector at West Quay and disinfected. The Ship was taken down the river and moored off Netley and disinfected throughout with sulphur dioxide by the staff of the Health and Port Sanitary Departments. After disinfection,

324 dead rats were found, none of which, however, showed any signs of having suffered from Bubonic Plague.

CHOLERA.

The following places were infected with Cholera during the year :—

India, China, Hong Kong, Japan, Straits Settlements, Phillipine Islands, Asiatic Turkey, South Eastern portions of Russia, and Arabia.

No case of Cholera was reported during the year.

YELLOW FEVER.

Cases of Yellow Fever occurred during the year in :—
Para, Pernambuco, Santos, Rio de Janerio, Mexico, Guatemala, Nicaragua, Honduras, and several other Central American and South American Ports, also in French West Africa.

No case, however, occurred on any vessel calling here.

PRECAUTIONS RESPECTING PLAGUE, CHOLERA, AND YELLOW FEVER.

A notice was issued in October amending the notice issued in September, 1905, under the Public Health Act, 1896, notifying to shipowners, masters and pilots the list of ports from which boats arriving here would be boarded by the Port Sanitary Authority before coming into Dock. The notice amended the previous one by withdrawing all Ports in the Baltic Sea from the list of infected places.

A further notice was issued on 20th December removing South Africa from the infected list, no case of Plague having occurred there for some months.

On the 29th December, however, a further notice had to be issued placing the Canary Islands on the infected or suspected list of Ports, owing to cases of sickness of a suspicious nature, and reported to be Plague, having occurred in one of the Islands.

SMALL-POX.

Small-pox was prevalent in many districts with which Southampton is in direct communication.

Five cases were reported to have occurred on vessels bound for Southampton. Four of these cases were landed at other Ports.

The only case landed here was brought by the S.S. "Goorkha" on July 4th from Cape Town. The patient was a child—C.H., age 9 months—who was reported to have developed Small-pox on the homeward voyage The case was removed, together with mother and attendant, to the Observation Ward at West Quay. The disease was of a very mild type and the patient was discharged on July 13th.

A suspicious case was also removed to the Hospital Ship on February 2nd, the patient being W.F., aged 27 years, who arrived here on S.S. "Tagus," from Jamaica. The man was reported to have suffered from Chicken-pox during the voyage, and the case being a suspicious one, the patient was removed to the Hospital Ship and kept under observation and treatment.

ENTERIC FEVER.

Thirty-four cases of Enteric Fever were reported to have occurred on vessels which arrived at this port. In 1905 the number was 32, and in 1904, 63. Of the thirty-four cases reported 27 were landed here, one was landed at another port, four died at sea, and two were convalescent on arrival.

Twenty-two of the cases landed here were removed to our Isolation Hospital for treatment, the other cases going to Netley Hospital. Six of the cases occurred on H.M. Transport "Plassy," and were landed on her arrival here on April 5th.

SCARLET FEVER.

Seventeen cases were reported to have occurred on vessels calling here. Fourteen of these cases were landed and removed to our Isolation Hospital. The other three cases were landed at other ports.

Ten of the cases landed here were from the S.S. "Magdalena," on 27th May, from Buenos Ayres. The cases occurred amongst the first class passengers and crew.

All contacts were removed and bathed and disinfected, and the usual disinfection was carried out.

DIPHTHERIA.

Only one case of Diphtheria occurred, which was removed to the Isolation Hospital.

MEASLES.

Eighty-eight cases of Measles were reported. Forty-eight were landed here, twenty at other ports, one case died at sea, and nineteen were convalescent on arrival.

All the forty-eight cases landed here were removed to our Isolation Hospital for treatment. Most of the cases were those of children of non-commissioned officers arriving on transports.

Thirty-two cases occurred on the homeward voyage of H.M. Transport "Dufferin," nine of them being convalesecent on arrival. All the contacts on board, amounting to 120, were also removed and disinfected. Fifteen cases subsequently occurred amongst these contacts, and were also admitted to our Isolation Hospital.

WHOOPING COUGH.

Fourteen cases of Whooping Cough were reported.

Only three cases were landed here. They arrived on H.M. Transport "Ionian" on 23rd April. These, together with three contacts, were removed to the Isolation Hospital.

CHICKEN POX.

Seventeen cases of Chicken Pox occurred on vessels arriving here. Eleven of the cases were landed from H.M. Transport "Ionian" on the 19th February. Nine of these were admitted to the Isolation Hospital for treatment, the other two being convalescent. All contacts with cases were removed, and bathed and disinfected, and disinfection was carried out on board.

TROOPSHIPS.

Twenty-two transports arrived during the year, compared with 26 in the previous year and 28 in 1904.

The numbers landed by these vessels amounted to 4,535 crew, and 29,240 passengers (troops).

These figures show a decrease on the previous years, when 4,717 crew and 32,054 passengers were landed.

Fourteen of the transports came from Bombay, two from Cape Town, two from Karachi, one from Hong Kong, and two from Alexandria.

All these vessels were boarded off Netley on arrival and medically inspected, in co-operation with the Naval and Military Authorities.

The infectious disease occurring on board and the action taken in respect thereto are detailed in Table C.

Cases of Enteric Fever occurring amongst Troops were removed to Netley Hospital. Cases of infectious disease occurring amongst crew or children on board were removed to our Isolation Hospital, and the case of Small-pox to West Quay Hospital.

It was considered advisable in many cases to remove the whole of the bedding and linen on board for disinfection. This entailed much work, as it necessitated the removal

of many thousands of articles to and from West Quay for disinfection in our Steam Disinfector, and the checking and counting of the articles removed.

The following table shows the number of transports arriving, together with crew and passengers landing here since Southampton was made a trooping port :—

Year.	Number of Troopships arriving here.	Number of crews landed.	Number of Passengers Troops).
1896	9	—	10,373
1897	13	2,453	12,635
1898	30	4,486	26,171
1899	26	4,004	23,913
1900	101	15,123	46,974
1901	134	17,407	80,310
1902	138	19,992	136,188
1903	40	7,016	38,182
1904	28	5,131	30,802
1905	26	4,717	32,054
1906	22	4,535	29,240

TABLE F.

LIST OF TRANSPORTS ARRIVING IN THE PORT OF SOUTHAMPTON FOR THE YEAR 1906.

Date.	Name of Vessels.	Where from.	Crew.	Passengers.
1906.				
January 2nd	Assaye	Bombay	220	620
January 21st	Sicilia	Bombay	191	1,256
January 28th	Dunera	Hong Kong	172	1,342
January 30th	Plassy	Bombay	232	1,232
February 8th	Dilwara	Cape Town	171	1,309
February 19th	Ionian	Bombay	185	1,748
March 17th	Assaye	Bombay	231	1,609
March 13th	Dunera	Alexandria	172	1,343
March 30th	Sicilia	Karachi	191	1,340
April 5th	Soudan	Bombay	200	575
April 5th	Plassy	Bombay	225	1,310
April 23rd	Ionian	Bombay	183	1,573
May 1st	Assaye	Bombay	231	1,154
May 6th	Dufferin, R.I.M.S.	Bombay	313	606
October 23rd	Sicilia	Alexandria	201	1,412
October 26th	Assaye	Bombay	229	1,588
November 8th	Dongola	Bombay	233	1,729
November 19th	Braemar Castle	Cape Town	140	1,519
November 22nd	Plassy	Bombay	239	1,278
December 7th	Rewa	Karachi	206	1,566
December 27th	Braemar Castle	Alexandria	140	1,456
December 28th	Assaye	Bombay	230	1,675
		Total	4,535	29,240

GENERAL SANITARY INSPECTION.

TABLE G.

Showing number of Vessels inspected, including re-visits with per centage of defects.

Date.	Foreign Vessels visited	Coasting Vessels visited	Total Inspections.	Number found defective.	Per centage Defective.
1890	1,750	3,570	5,320	75	1·4
1891	1,755	3,840	5,595	88	1·5
1892	1,788	2,819	4,607	57	1·2
1893	2,976	2,513	5,489	162	2·95
1894	2,196	4,190	6,386	239	3·74
1895	2,212	3,822	6,034	111	1·83
1896	2,312	3,196	5,508	105	1·9
1897	1,692	3,345	5,037	105	2·1
1898	1,766	3,136	4,902	48	0·97
1899	1,786	2,585	4,371	42	0·96
1900	1,666	1,795	3,461	52	1·5
1901	3,586	2,549	6,135	73	1·2
1902	2,191	3,464	5,655	175	3·1
1903	1,534	3,453	4,987	208	4·17
1904	1,618	3,555	5,173	140	2·67
1905	1,514	3,070	4,584	94	2·05
1906	1,559	2,750	4,309	71	1·65

INSPECTION OF VESSELS.

The number of inspections made amounted to 3,942, not including 367 re-visits. This is a decrease of 98 inspections, and 177 re-visits, compared with 1905.

Passengers and cargo vessels, other than those from infected ports, are boarded immediately they arrive alongside the quays. Vessels which only discharge passengers off Hamble are waited on by tenders. An officer of the Port Sanitary Authority accompanies each tender and receives a

report as to the health of the persons on board, and more particularly of those who are to be landed at Southampton. The number of such vessels visited was 102, and the number of passengers landed 5773, being an increase of 794 in the number landed by tender when compared with the previous year. In many instances the Steam Ambulance accompanies the tender in readiness to remove any infectious disease that may exist on board, in order to avoid any delay to the vessel.

TABLE H.

Table showing the total number of vessels visited, nationality, description, and number found defective, during the year 1906 (not including re-visits).

Nationality.	Steam.	Sail.	Total.	Defective
American	53	1	54	4
Austrian	1	0	1	0
British	2597	940	3537	61
Belgian	17	0	17	0
Dutch	61	4	65	0
Danish	3	4	7	0
French	1	28	29	3
German	156	12	168	0
Norwegian	18	25	43	2
Russian	0	5	5	0
Spanish	4	0	4	0
Swedish	10	2	12	1
Total	2921	1021	3942	71

NUISANCES.

Eighty nuisances, principally of an unimportant character, were discovered during the year, being a decrease of 44 compared with the previous year.

The majority of the nuisances were abated by verbal notice. In those cases where the vessel sailed before the notice could be complied with, if the vessel was proceeding to a home port, information as to the non-compliance was forwarded to the Port Medical Officer of the district to which such vessel was proceeding.

The nuisances consisted of the following :—

Defective stoves and stove pipes ...	9
Uncleanly food lockers	4
Uncleanly crews' quarters	23
Defective lining in the forecastle (overhead)	1
Foul condition of water closets and urinals	7
Uncleanly fresh water tanks and casks ...	13
Leaky decks over crews' quarters ...	4
Defective fresh water tanks and casks ...	3
Leaky condition of hawse-pipes in crews' quarters	1
Inefficient ventilation in crews' quarters ...	2
Defective floors in crews' quarters ...	2
Rotten potatoes in store room in crews' quarters	1
Leaky condition of ports in crews' quarters	2
Defective steam and waste pipes in crews' quarters	2
Foul condition of cattle deck ...	1
Foul condition of scuppers in crews' quarters	1
Uncleanly bedding in crews' quarters ...	1
Foul condition of coal locker in crews' quarters	1
Foul condition under the floor in crews' quarters	1
Defective skylight in crews' quarters ...	1

DISINFECTION.

Disinfection was carried out by the Port Sanitary Authority on 58 vessels, and 97,530 articles of bedding, &c. (including a number of parcels containing pieces of bedding

and effects counted as one article but disinfected separately), were removed to West Quay Hospital, and disinfected in the Steam Disinfector, and returned to the various vessels from which they were removed.

REGULATIONS.

The proposed Regulations under Section 125 of the Public Health Act, 1875, for dealing with the removal of persons brought within the district of the Port Sanitary Authority by any ship infected with a dangerous infectious disease, which had been submitted to the Local Government Board, were again considered with the Board's suggested amendments thereto.

The Committee, after further considering the matter, instructed the Port Medical Officer to visit the Local Government Board and point out that the Committee were of opinion that the proposed regulations would be of no advantage to them, particularly in view of the measures at present in force for boarding vessels in the River.

The Local Government Board under the circumstances expressed their willingness to fall in with the views of the Port Sanitary Authority.

RATS.

The total number of rats caught and destroyed during the year amounted to 23,203, also 169 mice, viz. :—On vessels, 12,315 ; in stores and wharves, Docks, 10,888 rats and 169 mice. The number of rats destroyed in 1905 was 39,986, and in 1904, 47,813.

WATER SUPPLY.

The water barges supplying vessels and yachts in the port with drinking water were frequently inspected, and found in a satisfactory condition.

CONSULAR CERTIFICATES.

During the year over 850 certificates as to the health of the Borough and Port have been issued to various Consuls in the Town at their request.